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NOTICE OF ALLOWANCE AND FEE(S) DUE

65913 7590 04/03/2008

NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131

| EXAMINER | | | | |
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2817 DATE MAILED: 04/03/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/538,632 | 02/09/2006 | Saleh Osman | US02 0557 US | 5395 |

TITLE OF INVENTION: PRESERVING LINEARITY OF AN ISOLATOR-FREE POWER AMPLIFIER BY DYNAMICALLY ADJUSTING GAIN AND PHASE

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1440 | \$300 | \$0 | \$1740 | 07/03/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

| appropriate. All further indicated unless correct maintenance fee notifica | ed below or directed otl | ng the Patent, advance on herwise in Block 1, by (| orders and notification of a) specifying a new corre | maintenance fees spondence address | will be ; and/or | mailed to the current of (b) indicating a separate | correspondence address as rate "FEE ADDRESS" for |
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| CURRENT CORRESPOND | DENCE ADDRESS (Note: Use B | lock 1 for any change of address) | Fee paj | e(s) Transmittal. The ers. Each addition | iis certii al paper | icate cannot be used for | domestic mailings of the or any other accompanying at or formal drawing, must |
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| 1109 MCKAY I SAN JOSE, CA | | | | | | | (Depositor's name) |
| SAIV JOSE, CA | 73131 | | | | | | (Signature) |
| | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTO | ₹ | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/538,632 | 02/09/2006 | • | Saleh Osman | | | US02 0557 US | 5395 |
| TITLE OF INVENTION PHASE | N: PRESERVING LINE⊿ | ARITY OF AN ISOLAT | OR-FREE POWER AMF | LIFIER BY DYNA | AMICA | LLY ADJUSTING GA | IN AND |
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| nonprovisional | NO | \$1440 | \$300 | \$0 | | \$1740 | 07/03/2008 |
| EXAM | MINER | ART UNIT | CLASS-SUBCLASS | _ | | | |
| NGUYEN | N, HIEU P | 2817 | 330-278000 | | | | |
| "Fee Address" inc PTO/SB/47; Rev 03-1 Number is required. 3. ASSIGNEE NAME A | AND RESIDENCE DATA | " Indication form aed. Use of a Customer A TO BE PRINTED ON | (1) the names of up to agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty | ively, le firm (having as agent) and the nan orneys or agents. If e printed. | a memb nes of u no nam | er a 2p to lee is 3 | |
| recordation as set for (A) NAME OF ASSI | th in 37 CFR 3.11. Com _j GNEE | pletion of this form is NC | T a substitute for filing ar (B) RESIDENCE: (CIT | assignment. Y and STATE OR | COUNT | TRY) | cument has been filed for up entity Government |
| Please check the appropr | rrate assignee category of | categories (will not be p | | | | | <u> </u> |
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| | No small entity discount j | permitted) | Payment by credit ca | rd. Form PTO-203 | 8 is atta | iched. | |
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| 5. Change in Entity Sta | , | | | | | | |
| ** | ns SMALL ENTITY state | | b. Applicant is no lo | - | | | |
| NOTE: The Issue Fee an interest as shown by the | nd Publication Fee (if req records of the United Sta | uired) will not be accepte ites Patent and Trademark | ed from anyone other than confice. | the applicant; a reg | istered | attorney or agent; or the | e assignee or other party in |
| Authorized Signature | | | | Date | | | |
| Typed or printed nam | ne | | | Registration 1 | No | | |
| This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22 | ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DO | CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR 2 USPTO. Time will vary rden, should be sent to th D NOT SEND FEES OR | on is required to obtain or 1.14. This collection is er y depending upon the indi the Chief Information Offic COMPLETED FORMS T | retain a benefit by stimated to take 12 vidual case. Any c er, U.S. Patent and O THIS ADDRES | the pub minutes omment Traden S. SEN | tic which is to file (and is to complete, including is on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450, |

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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| NXP, B.V. | | | NGUYEN | I, HIEU P |
| | UAL PROPERTY DE | ART UNIT | PAPER NUMBER | |
| M/S41-SJ 1109 MCKAY DR SAN JOSE, CA 95 | | | 2817 DATE MAILED: 04/03/200 | 8 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 213 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 213 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| Application No. | Applicant(s) |
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| 10/538 632 | OSMAN ET AL. |
| Examiner | Art Unit |
| HIEU P NGUYEN | 2817 |
| pears on the cover sheet wit S (OR REMAINS) CLOSED in S) or other appropriate commu | th the correspondence address in this application. If not included unication will be mailed in due course. THIS subject to withdrawal from issue at the initiative |
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| under 35 U.S.C. § 119(a)-(d) of we been received. we been received in Application ocuments have been received | |
| " of this communication to file MENT of this application. | a reply complying with the requirements |
| mitted. Note the attached EXA ves reason(s) why the oath or | AMINER'S AMENDMENT or NOTICE OF declaration is deficient. |
| ust be submitted. | |
| rson's Patent Drawing Review | v (PTO-948) attached |
| <u>_</u> | |
| r's Amendment / Comment or | in the Office action of |
| 1.84(c)) should be written on the header according to 37 CF | ne drawings in the front (not the back) of R 1.121(d). |
| OSIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO | ERIAL must be submitted. Note the DLOGICAL MATERIAL. |
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| <u>=</u> | formal Patent Application |
| Paper No./ | ummary (PTO-413), Mail Date Amendment/Comment |
| <u></u> | Statement of Reasons for Allowance |
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| 9. 🔲 Other | _• |
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| | Examiner HIEU P. NGUYEN Dears on the cover sheet with the sader according to 37 CF apper No./7. Solven and Meren appropriate communication is saled and MPEP 1308. This application is saled and MPEP 1308. The been received. The been received in Application are been received in Application. The been received in Application application application. The been received in Application application application application. The been received in Application application application application application. The been received in Application applicatio |

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 17, line 1, "claim 16" has been replaced by --claim 15--.

Allowable Subject Matter

Claims 1-3, 5-15 and 17-18 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1-3, 5-14 and 17 are allowed over the prior art of record. The prior art of record considered individually or in combination, fails to fairly teach or suggest the claimed circuit comprising, among other limitations and unobvious limitations of "a control circuit that independently controls the first active device and the second active device, and which control said phase shifter in response to said levels of forward signal and reflected signal to substantially maintain linearity of said amplifier circuit with load variations" or "a control circuit which independently and selectively controls switching said phase shifter, said at least first active device, and said at least second active device as a function of said levels of forward signal and reflected signal to substantially maintain linearity of said amplifier circuit with load variations "or "a control circuit that control said phase shifter" structurally and functionally interconnected with other limitations in the manner as cited in the claims.

Claim 15 is allowed over the prior art of record. The prior art of record considered individually or in combination, fails to fairly teach or suggest the claimed circuit comprising, among other limitations and unobvious limitations of "modifying a first gain of a first active device and a driver stage and a second gain of a second active device of an output stage of said amplifier circuit in response to said levels" structurally and functionally interconnected with other limitations in the manner as cited in the claims.

Claim 18 is allowed over the prior art of record. The prior art of record considered individually or in combination, fails to fairly teach or suggest the claimed circuit comprising, among other limitations and unobvious limitations of "a capacitor coupled between the phase shifter and the output stage" structurally and functionally interconnected with other limitations in the manner as cited in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu P. Nguyen whose telephone number is 571-272-8577. The examiner can normally be reached on M-F: 8 A.M - 5P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2817

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hieu Nguyen Au: 2817 Robert Pascal Primary Examiner

HN

/Robert Pascal/ Supervisory Patent Examiner, Art Unit 2817